NASA Grants 3 Million 3-Day Event Next Month Winter Weekend To Have For New Space Center

Construction will begin late this year on a new Space Research Center financed primarily by a National Aeronautics and Space Administration facilities grant.

President Stratton made public Saturday the agreement between himself and NASA administrator James Webb under which the Institute receives \$3 million from NASA for the center. MIT will provide \$1 million from the Second Century Fund to supplement this.

The center will be constructed on Vassar Street directly behind building 31. Its five stories will contain about 100,000 square feet of space for laboratories, offices, and classrooms. Construction will take about two years.

A director for the center has not been chosen yet. At present, planning is in the hands of the Faculty Committee on Science and Engineering Connected with Outer Space, which is headed by Provost C. H. Townes. A director will probably be chosen within the next month, according to the committee, and assembly of a staff will then

NASA will also augment the grant for the Cen-

ter itself with increases in grants for research and fellowship, which now total about \$1.5 million. lion per year for the next three or four years.

Over 20 percent of the faculty of the Institute is presently engaged in space research, said President Stratton, with more than 140 professors from 14 departments and 4 schools represented.

A total of more than 500 people, including faculty, research assistants, and graduate students, are working in this field at MIT, he said. In 1961, 15 percent of the candidates for graduate degrees at MIT carried out research and wrote theses in space-related fields. These factors figured in the NASA decision to grant the money.

The center is to serve as an extra-Institute focal point for campus-related research, Stratton said, and will permit greater interaction among the disciplines involved in the US space program.

Said Stratton: "The Institute is now at a point where this new center is crucial to the appropriate development of MIT's commitment to advanced nights' events will be in the Armresearch and teaching in space-related fields."

Established At MIT In 1881

Vol. 82, No. 28

Cambridge, Massachusetts, Wednesday, January 9, 1963

Council Delays Civil Rights Bid Again

ber 19 meeting rejected condition- Activities Council extended its pro- a stricter control over its finances ally the application of the Civil visional status for three months so by opening a checking account, Rights Committee for permanent that the club can reorganize ac- the Activities Council granted its recognition as an activity, and ac- cording to a four-point plan: cepted a similar application submitted by RADP.

Rights Committee had been grant- ture; (2) schedule regular busi- for provisional recognition. ed one-year provisional recogni- ness meetings; (3) revise its tion. CRC president Ned Block '64 membership requirements; and reviewed the group's activities -(4) obtain the approval of the Se-menian student's knowledge of his over the past year. These includ- cretariat for its constitution. ed participation in a tutorial project and sponsorship of a lecture proach to Peace and Disarmament munity. by Minister Malcolm X.

Reserve Room Open Later

The Reserve Book Room in the Hayden Library will operate on the following schedule from January 9 to January 24:

Sunday-Thursday: open until 3:00 a.m.

Friday and Saturday: open until 1:00 a.m.

CRC must (1) meet with the tus. Finance Board to arrive at a mu-In December of 1961, the Civil tually satisfactory financial struc- application of the Armenian Club

> (RADP) was submitted with a constitution already approved by the Secretariat.

Upon the recommendation of the qualifications for Secretariat. membership had been made more committee of RADP being given tion for membership. Such a decision may be rescinded by a twothirds vote of the general mem-

Activities Council at its Decem- On rejecting CRC's application, After RADP agreed to exercise application for a permanent sta-

The Council also discussed the

The stated purpose of the organization is to enrich the Arancestral heritage and to present The application of Rational Ap- this heritage to the outside com-

Transcripts of Records

grades included will be available Calcutta Management Institute and restrictive, with the executive beginning the week of February the Metropolitan Planning Organ-18, 1963, if orders are placed the power to reject any applica- now, according to the Registrar's

above time.

Si Zentner, Bo Diddley

By Ron Frashure

Winter Weekend, Feb. 21-23, will feature entertainment by Bo Diddley and Si Zentner's orchestra.

The schedule of this all-Institute Weekend is as follows: Thursday night, Feb. 21: basketball game with Coast Guard The increases will range from \$500,000 to \$1 mil- Academy. Faculty will play students between halves in a match

sponsored by T-Club. Bo Diddley will entertain until 1:00 a.m. after the game. Friday night ,Feb. 22 (Washington's Birthday): formal dance

in the Armory, with music by Si Zentner's orchestra. Saturday afternoon, Feb. 23: two cocktail parties sponsored by IFC, and a Dormcon-sponsored folk-sing featuring Jackie Washington. The three parties will be open to all attending the Weekend.

Saturday night-musical entertainment followed by a dance Thurman at Convoation band at 11:00. According to Barton Weitz '63, Winter Weekend Committee Chairman, the choice of Saturday night's entertainment is not final, since the contract hasn't yet been returned.

675 tickets will be sold to undergraduates. Weitz adds that the ticket price will be about \$12.50.

Both Friday and Saturday ory, and the seating capacity for both nights will be the same. Thus there will be no split tickets for Weekend events, with the exception of a few Friday-night-only tickets that are reserved for the faculty.

tickets was partly required by the speaking at the Christmas Convo-

(Please turn to page 2)



Dr. Howard Thurman, Dean of The policy of not selling split Marsh Chapel of Boston University, cation at Dec. 19.

-Photos by Joseph Baron

To Visit India, Africa

Five Cents Strattons On 5-Week Trip

President and Mrs. Julius Stratton embarked Saturday on a five week trip to Africa and India. Dr. Stratton, a trustee of the Ford Foundation, is making the trip to observe some of its activities abroad.

After making a stop in Rome, Dr. Stratton will arrive in Lagos. Nigeria, January 8, on and at Nairobi, Kenya, on January 15. While in Africa he will meet with some of the 17 MIT fellows who, in a

Ford Foundation sponsored program, are spending two years in various countries as staff workers for governments and development corporations.

Stratton plans to arrive in Bombay January 21, and will visit the Tata Institute and the Technical Institute there.

Indian Institute of Technology in Kanpur, a new institution being developed with the aid of nine American universities in a program led by Prof. Norman Dahl of MIT.

From there he will go to Cal-Tranascripts with first-term cutta, where he will visit the ization, and to Kathmandu, Nepal, where he will inspect the Small Industries Center. He will Transcripts without first-term arrive February 5 at Delhi, where July and was editor and then versity of Delhi.

MIT Alumni Leader Lobdell Died Jan. 1

Harold E. Lobdell, Dean of Students from 1929 to 1946, died Jan-On January 30 he will visit the uary 1 after a long illness in Houston.



Lobdell, who attended the Institute from 1914 to 1917, was executive president of the Alumni Association from 1946 until his tirement last

grades may be ordered up to the he will give a lecture at the Uni- publisher of Technology Review for 40 years.

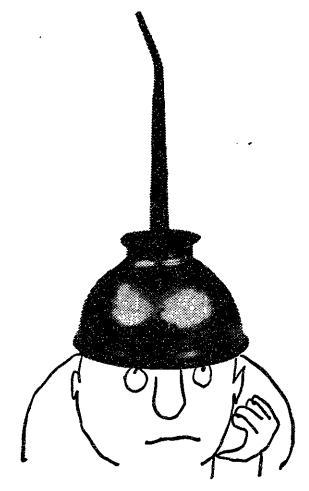
Construction Proceeds On Tech. Square, Housing Projects



Construction of the four story section of the new married students apartments is viewed from the third floor of the sixteen story tower. The tower will contain efficiency and one bedroom apartments. The other apartments will consist of two bedrooms. The apartments will be ready by fall.



Interior work is now under way in the first building to be constructed in Technology Square. The nine-story building has been leased by IBM, the Institute of Naval Studies and -Photos by Conrad Grundlehner C-E-I-R, Inc.



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BUY VITALIS AT THE COOP

Meteorology Prof. **Predicted Cold Mercury Hits -3**

"MIT can expect a colder winter this year with an above-average amount of snow." This forecast, now proved correct, was made by Meteorology prof. Hurd C. Willett three months ago. Sunday the temperature fell to 3 below zero.

Willett based this forecast on the level of sunspot activity and the weather patterns of the preceding months. In general, periods of low sunspot activity coincide with periods of colder-thanaverage weather, although the placement of lows in the 22-year sunspot cycle is important.

The rest of the winter will probably also be colder than normal, with the Boston area getting more than its share of snow. Willett also feels that the second week in February is likely to be the coldest period of the winter, although a warming trend should set in soon afterwards.

Prof. Frederich Sanders, also of the Meteorology Department, noted that the severe snowstorm which centered on Bangor, Maine, during the holidays had the same form as the legendary blizzard of 1888 that hit New York City. Sanders says that we were just missed by both these storms.

CLASSIFIED ADS

WE PAY up to \$1.25 for old license plates, price based on scarcity. For details call or see Gwillim Law, Bemis 101.

To Study Government

MIT Plans Conference

By Ron Lundquist

"Federal Government-How Much?" will be the topic of an intercollegiate conference on federal government to be held at MIT, April 3-6, according to Steve Kaufman '63, chairman of the Intercollegiate Conference Steering Committee.

Fifty colleges from across the nation will send two delegates each to the conference, which is estimated to cost \$14,000. To insure nationwide representation, the traveling expenses in excess of fifty dollars of the visiting delegates will be paid by the conference.

The conference will be divided into three main topics: (1) Role of Government and Maintenance of Economic Growth and Stability; (2) Role of Government in Scientific Research, Development, and Planning; and (3) Role of Government in Labor-Management Rela-

Two experts will speak on each topic. A panel group will then discuss the topic. Delegates will then split up into small discussion groups of thirty persons for further discussion.

More detailed plans for the conference will be announced soon. The general meetings of the conference will be open to all MIT

The cost of the conference will be partially covered by the Institute, student government, and registration fees. The steering committee hopes to raise the remainder, about \$6,000, through a grant from a foundation.

Hazel To Read Poems In Library

read in the Hayden Library part of the 1962-63 Poetry Series, Lounge at 8 p.m. tomorrow, says was born in Indiana in 1921 and he was 28 years old before he spent his childhood on a farm wrote poems that were "any

Since then he has become his own kind of poet, and critics, in an age that many consider full of minor poets and poetry, praise him for setting up shop in the grand American bardic tradition -in a direct line from Walt Whitman and Hart Crane.

Poet Robert Hazel, who will Hazel, who will appear here as near Bloomington; his poetry often uses images from his boyhood. Also a critic and novelist, he wrote his first book "The Lost Year" at the age of 26. Critic Allen Tate, in an introduction to Hazel's "Poems, 1951-1961," says, "He ought to be one of the best of the second half of the century . . . I do not know any younger

American poet who has access to an associative imagery as rich and unpredictable as Mr. Hazel's."

Robert Hazel has recently joined the faculty of New York University as an assistant professor, having previously taught at Oregon State University.

Diddley And Zentner Featured At Weekend

(Continued from Page 1)

necessity that the Weekend be a financial success. Last year's Weekend, held in May, showed a deficit of \$5,500.

A \$3,000 saving in expenses was made possible by canceling plans for a dance floor in the Cage. The dances will be held instead in the Armory. The Armory floor will be without canvas, to make dancing easier.

Entertainment costs will be reduced by about \$500 from last year's figure, according to Chairman Weitz. However, decorations expenses will be increased perhaps as much as \$500. About \$750 will be spent on decorating the Armory.

The committee is running a contest for an outstanding decorations scheme for the Armory, with a \$50 prize to the winning designer. Only two entries have been submitted so far. Entries are still being accepted.

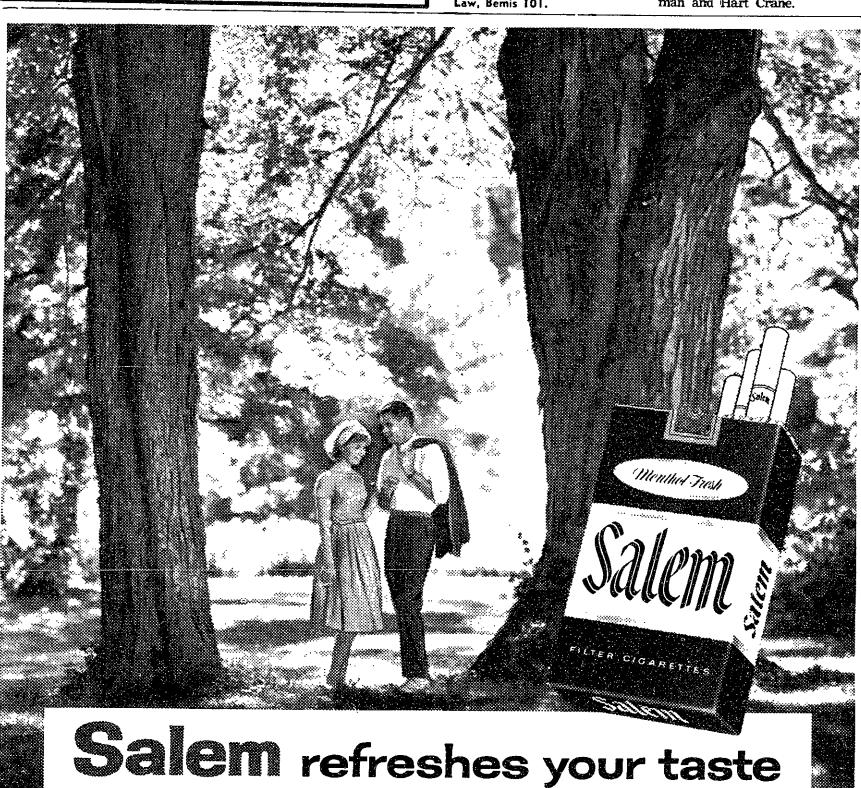
To raise additional funds for the Weekend, the committee planned a souvenir booklet containing advertising. The advertisers sought were companies hiring MIT graduates. The plan was okayed by both Dean Wadleigh and Mr. Harrington, the Place-

ment Officer. The committee talked with about 35 of the 90 companies receiving the prospectus which illustrated the booklet plan. However, most of the companies preferred to advertise nearer graduation time. Thus, says Weitz, the booklet probably cannot be print-

The break-even figure for the booklet was 8 ads. The target of 20 ads would have turned a profit of \$1,400.

Bo Diddley's three-hour show will feature two of his millionselling records, "Say Man" and "Hey Bo Diddley."

Si Zentner's orchestra has thirteen pieces and two vocalists. His albums featuring "Up a Lazy River" was a top-selling LP record last year.



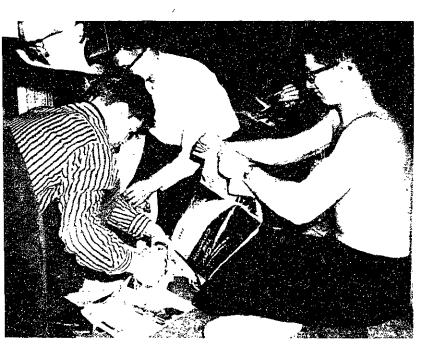
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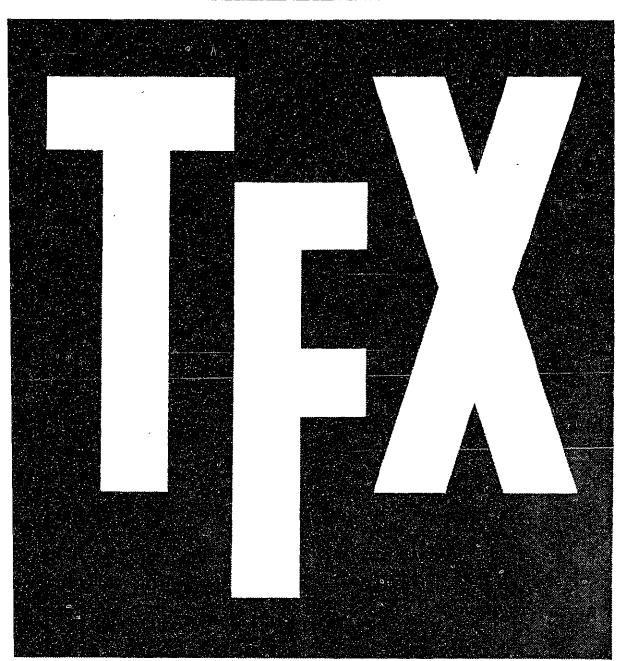


-Photos by Conrad Grundlehner

Holiday season witnessed much stuffing, and not all of it in turkeys. urday night, John Eck '64, Don Wagner '65, and Joel Greenwald '65 wove, left to right) and ten other Burtonites balled up magazines and k issues of THE TECH, and stuffed them into the fifth floor single nter) of Byron Johnston, '63.

(Right) After Johnston opened his gift wrapped door and received "present," the papers were moved down the hall toward Wagner's





As recipient of the award for the TFX, General Dynamics/ Fort Worth continues to pioneer technological development in the Southwest. The TFX is a bi-service (Air Force and Navy) aircraft with many unique engineering characteristics. Its development will afford excellent engineering opportunities to qualified engineers and scientists. To take advantage of these opportunities, contact your Placement Director to determine when a GD/FW representative will be on campus, or write Mr. J. B. Ellis, Industrial Relations Administrator-Engineering, General Dynamics/Fort Worth, P. O. Box 748, Fort Worth, Texas. An equal opportunity employer.



GENERAL DYNAMICS FORT WORTH

Computer-Controlled Gun Freezes Electronic Images

By James Veilleux

It's new possible to "freeze" TV images electronically and store them for long periods of time. The remarkable device responsible for this is the storage tube developed by Raytheon's Industrial Components Division in Quincy, Mass. Guests Alvin Luvlin and Walter Cronberg explained its theory and application on Channel 2's "MIT Science Reporter" last week in the program entitled "Time in

The tube is similar to one found in a TV set, in that it consists of an electron gun and a screen to receive the beam. The screen, however, is a dielectric wire mesh with 1,000 strands per inch; and the electron beam is twice as fine as that of a standard television

The electron gun, under control of a computer, takes a TV image at the desired instant of time and reproduces it on the wire mesh. The image is then made visible on a collector directly behind it. Because of its fineness, the screen can be divided into sections, so that several images can be frozen simultaneously.

The newest refinement of the storage tube is a dual-gun arrangement, in which one electron gun freezes the images, and the other scans the screen to read them off. In this device, after several images have been compiled, the old ones gradually fade out to make room for more.

Of the many applications for which the tube is designed, radai is probably the most vital. In conventional installations, the radar scanner leaves the pattern it records on a screen in the control room. But the pattern is only visible for a few inches behind the position of the scanner on the screen, while it is turning very rapidly. This set-up requires a darkened room and is very tiring on the eyes.

The storage tube, however, can freeze the entire radar pattern on the screen for one or several rotations of the scanner. When several rotations are recorded, one not only sees the radar pattern but also the path of moving targets. Old patterns, of course, gradually fade out to allow the storage tube to freeze new ones.

This type of installation is already being used by the Coast Guard to control the traffic in New York Harbor. The operation, located on Sandy Hook, reveals the position of buoys marking Ambrose Channel and the motion of ships passing through. Each ship is equipped with a storage tube which informs the captain of his position relative to the other ships and channel markers in his vicinity. In order to determine which vessel is his on the screen. he must make a sharp turn and watch for the radar's response.

Other uses of the tube include recording train numbers in railroad yards and plotting the sequence of events leading to the failure of plant equipment.

It is also an integral part of PLATO (Programmed Logic for Automatic Teaching Operation), a computer which feeds information to students. The student answers problems and can call on the storage tube for a decision on whether or not his answers are correct. This operation was quite successful when tried in conjunction with a math course.

Special Computer Envisioned For Drafting But Use Is Still Five To Ten Years Away

Computers may be used in the and alter the hundreds of possible taking design and drafting to only hand. a few hours, according to Prof. Robert W. Mann, mechanical engineering.

an engineer could design and im- greater speed and accuracy. tern. The computer could erase ten years away.

future to reduce months of pains- designs that are now done by

Most of the time spent in designing supersonic aircraft, for example, is in developing, changing, In a lecture sponsored by MIT's testing, and integrating thousands Society of Arts, Prof. Mann de- of individual parts on paper. The scribed the special computer. It computer, with its memory capahas a TV-type screen on which city, could accomplish this with

prove numerous components and The use of these computers, then integrate them into one pat- said Prof. Mann, is still five to

THE TECH

Vol. LXXXII No. 28 Jan. 9, 1963

Publish or Perish?

MIT has long been troubled by the encroachment of research activities upon the traditional educational function because of its unique position as a "university polarized around science". For the same reason, it probably has a greater opportunity to rise above the dichotomy between research and

To understand the effect of MIT's huge (\$20 million for research, vs. \$30 million for academic operations in '61) research commitment upon its educational policy, a little information about principles of operation is necessary.

First, MIT considers research by its staff members, particularly the younger men, a necessity. The official position is that unless a man does original work in his field, he cannot remain alive to new developments, ergo, he cannot be a really good teacher. Further, research activity should be emphasized during younger years, both because this is usually a man's most productive period, and because he must establish his professional reputation at this time.

Second, no faculty member is ever paid more because he does research. Rather his salary is split between academic and research budgets according to the time he

spends at research. MIT's total staff is about 1500, of which 700 are faculty members. In '61, about 3/5of the operations budget was spent for education. If we simply take 3/5 of the above. this leaves MIT with about 420 "full time" teachers. Although this isn't exactly correct. it gives an idea of the research influence, and does distressing things to MIT's fabulous student-faculty ratio.

More distressing is the effect of research policies on educational quality. In addition to regular questions about contract renewal and promotions, most faculty members face the selection or rejection for permanent tenure at age 37. The criteria for this decision (which is made by the administrative budget committee) are multiple. Principally the man must have demonstrated a loyalty to MIT and promise as a scholar and a teacher.

The administration will admit that of the latter two goals, both are not always achieved. Further, research ability is easier to document and evaluate than teaching ability. For this reason, the man's ability as a scholar often is more important in determining his chances for promotion than his ability as a teacher. Young faculty members know this, and sometimes find themselves compromising their contributions to education in favor of an active research program. After the selection process has taken place, the good educators who are only mediocre scholars are weeded out, leaving the overall emphasis on the faculty's research ability.

We feel that there are two potential flaws in the above system. First, because a man is more interested in education than in research does not mean that he will be a bad professor. The departments and the budget committee are failing in their own responsibilities when they do not establish methods which can be used to evaluate teaching ability as adequately as scholarly worth.

Again, because a man's early years are his most productive he should not be constrained to devote them predominantly to research. The specious argument that only men with established professional reputations can be good teachers and educational innovators is self-defeating and only produces a hierarchy of research-oriented educational conservatives. This is not what MIT wants, but it is what it will get unless special steps are taken at all levels to encourage the man who is truly interested in education and wants to devote his life to it.

Hunger Hurts

During the vacation most students took advantage of the recess in classes and left Cambridge. Those who remained on campus must certainly have felt that they were persona non grata in the eyes of the Institute.

After the Strattons' very gracious open house for these students, what did they find? The only meal service on campus was at lunch for seven days out of the twelve from 24 December to 4 January. For the other five days there were no meals at all.

Although we recognize that it may not have been financially profitable to open any dining service at other times, we feel that MIT is not purely a business enterprise and that the welfare of its people should have been given more consideration.

For example, Pritchett Lounge could have been opened: there were students on campus who would have been very happy to eat there, and there were also enough Walker staff men available to run the serv-

The many students who returned from

vacation early last week were startled to find no campus dining service open. We lieve there were enough of these people to make it feasible to open the Graduate House Dining Hall, normally MIT's off-season din-

We hope that in the future some form of dining service will be provided for students who remain on campus during the

It is unrealistic to expect that MIT will decrease its research activity, and it should not. Scholarly opportunities are among the principal attractions MIT has for both students and faculty. To use this opportunity to best advantage, MIT must look for more ways to combine the functions of teaching and research. The most promising innovations for science education are those which will supplement expository education with working contact between students and practicing scholars.

We must remember that the goals of education and research are not separate and incompatible, and that MIT's strength as an educational institution lies in a firm unwillingness to compromise its educational function, and an earnest effort to use its research facilities as educational tools. In this course there is a bright future for MIT: the university and the research establishment.

Transcripts

An idea is going the rounds that contributions to extracurricular activities should be recognized by a listing of activities on official transcripts. This innocent-sounding notion has several pitfalls. The main risk is that "freeloaders" may be encouraged to join activities just to make their transcript look good. If no distinction is made between the man who devotes all his free time to really valuable service on one activity and the man who is just a "joiner", listing activities on the transcript will do more harm than good.

One way MIT could provide more official recognition for students who have done an outstanding job in extracurricular endeavours is to provide a flexible number of citations, to be awarded by the Activities Development Board to remarkable students. These citations could be listed on the transcript and give well-earned help to those students in job and graduate school applications. Members of activities could be recommended by the officers of that activity, who would be automatically considered. In this way inequities caused by fluctuations of interest and ability could be avoided, and a citation on the transcript would be recognized as a not-

able achievement.

Letters to The Tech

Professor takes issue with Editorial Interpretation

To The Editor:

Referring to my article in The Nation, your December 18 editorial titled "All a Mistake?" charged me with the view that man's control of atomic power is just that. "We are sure," you wrote, "that Dr. Smith . . . is among those who would rather nuclear energy had never been discovered."

But this is precisely the position sounding No! I sought to challenge. Citing

Lewis Mumford as representing it, I answered:

"To this position there are three replies: it is irrelevant now, it was impossible then, and it is unseemly whenever . . . This is no stance for man. Suppose some individual had been given dictatorial power in 1940 to mark the nucleus off-limits for mankind forever. Would he have done so? Should he have done so?"

My clearly implied answer to this rhetorical question was a re-

Huston Smith









PEANUTS appears daily and Sunday in the Boston Herald.

College

By Toby Zidle '63 Yale Reprimands Security Chief For Keeping Files On 'Subversives

Yale University has recently found reason to rebuke its Security Chief, John W. Powell. The reason comes mostly from a Yale Daily News series of five articles entitled, "John Powell: A G-Man Comes to Yale".

Using as its main source of information campus guards who have rebelled against Powell's administration, the series asserted that the Yale campus police force "is run like the FBI."

"One of John Powell's first moves after assuming the command of the University Police was the institution of an intricate filing system for the classification of reports by police officers on every action they take," the News reported.

One of the substantial files kept by the force is allegedly entitled "Subversive Organizations, Activities and Individuals Confidential)."

The most serious charge made against Powell by his men involves his allowing security officers from government agencies and private firms to examine some of the unusually complete records he keeps on students.

As a result of the series, Yale Provost Kingman Brewster sent a strongly-worded letter to Powell stating that the Security Chief was "not authorized to engage in the investigation of student or faculty political activities or views.'

Security Chief Powell has refused to comment on either the letter or the series of articles.

Graduate Rattle Students at Caltech, like those at Yale and other colleges are always looking for new ways to tackle problems. Fletch Murphy, in his California Tech column "Graduate Rattle", comments:

'Another problem annoying the graduate kitchens is trash disposal on the weekends. If the U.S. had turned out arms in 1942 like these kitchens churn cut trash, World War II would have lasted only six months. At MIT they have developed an item called an infinite potential well which they use quite successfully for the instant elimination of anything undesirable. It might be

a good idea to look into the installation of these here."

Large Scale Experiments

The Illinois Institute of Technology and its associated Armour Research Foundation have gone into the business of eliminating "undesirable items"-the Chicago slums. Several multi-storied apartment buildings are being removed by a very fundamental process-fire. The Chicago Fire Department is cooperation, of course, as is Chicago's Department of Urban Renewal, which supplied the buildings.

The purpose of the program is to obtain more reliable data on the rate and mode of fire spread through a building. The results will hopefully lead to improved fire fighting equipment, techniques, and preventive measures.

To obtain the data, ARF is carrying out analytical studies as well as laboratory fire tests on scaled models. In order to achieve some measure of confidence in the results of the studies, however, it is essential to carry out experiments on actual full-scale structures. Consequently, the Foundation got into the slum clearance business.

The large-scale experiments are fully instrumented to gain the required data. The instrumentation consists of numerous temperature sensors properly distributed to measure the temperatures and rate of travel of the fire. It also includes velocity-measuring devices located at external openings to indicate the inflow of air and outflow of gases resulting from the fire. Other instruments are gas sampling tubes and radiometers placed at some distance from the building to determine the radiant heating intensity of the fire. Photographic records are made of the fire.

To simulate realistic conditions, the buildings contain typical furnishings. The experiments consist of starting a fire in one room and allowing it to progress freely throughout the building, as far as prevailing conditions permit. The final stages of the experiments are left in the hands of the Chicago Fire Department.

Statistics Conceal Flight Safety Facts

By Steven Lipner

Flight safety and the problems must improve on it. it presents for the future were Transportation Seminar.

Mr. Lederer pointed out that airplane. statistics may conceal facts about Mr. Lederer attributed the high about 10,000 fatalities per year. ingly. Thus we cannot be satisfied with

message

graduating

engineers

scientists

and

our present safety record, but ty design, Mr. Lederer pointed out

the topics of a talk by Mr. Jerome described by Mr. Lederer as hav-vate flyer will accept certain risks. F. Lederer on Tuesday, December ing a far worse record than com- He also warned that regulations 18. Mr. Lederer's talk was the mercial. The major source of ac- for safety must not be so rigorlast in a series before the Flight cident in this area is the privately owned, rather than the business

flight safety. For instance, al- accident rate in private flying to showed a number of films of con- from 1957 to 1959, despite a 30% gerground counter - revolutionary though air travel is safer than all inadequate pilot training and fail- trolled helicopter crashes conduct- fall in total exchange receipts group outlawed by the Cuban driving, freeway driving is now ure to design equipment to fit the ed by the Flight Safety Founda- and a 25% increase in wages. approaching the safety of .com- pilot. By contrast, most commer- tion, of which he is director. The Rent and utility rates dropped as mercial flying, in terms of fatali- cial accidents are due to failure tests were conducted for the Army salaries rose. Cubans consumed ties per passenger mile. And while of equipment. He suggested that to determine a way of making our present accident figures are engineers must realize that pri- helicopters safer in crashes. He quite good, the estimated traffic vate pilots are not as well trained described these tests as typical for the end of the century implies as commercial and design accord-

Speaking of the morality of safe- flying safer.

that while a commercial passenger General or private aviation was expects absolute safety, the pri-

ous as to stifle new innovations and destroy profits.

of the work of the Foundation, their consumption, compensating

CubanCommunistEconomy # Scrutinized in Degeneration

come under close scrutiny. In a discouraged price increases as December 19 lecture at MIT, Al- anti-revolutionary. liance for Progress's Dr. Filipe Pazos discussed factors acting to bulletin of the Cuban Student Dicombat inflation.

In conclusion, Mr. Lederer in the level of prices in Cuba student Juan Calvo '62, is an untheir inventories and stopped investing.

High income groups reduced which conducts research to make for increased consumption by lower income groups. Dr. Pazos also

Communist Cuban economy has pointed out that the government

More recent information is suprectorate. The Directorate, whose There was no appreciable rise Boston branch is headed by MIT Communist regime.

> Food rationing has forced prices to exorbitant levels of \$2/pound for beef, \$3.50/pound for pork, \$3/pound for lard, \$1/pound for rice, \$30 for an egg, \$10 for a chicken, and \$35 for a turkey. The "Report" adds that meat is available only on the black market.

The government is closing all privately-owned department stores and establishing a single state store in each city. Buying permits, issued through local "Vigilance Committees" and redeemable only at state stores, are sold on to the citizens.

Shoes, however, are only available to government employees and workers. This ruling has deprived the aged and the young of shoes. Many people must go barefooted even in the larger cities.

Pregnant women need special permission to buy food and medicine. Baby clothes are also ra-

Lack of food and medicine is a critical problem in Cuba. The recent return of the Bay of Pigs Invasion prisoners has shown this dramatically. The prisoners were subjected to malnutrition and gastroenteritis, but could not receive any medical aid for their condi-

Lack of sanitary practices and unsafe drinking water are contributing to a gastroenteritis epidemic in Cuba. In some of the villages nearly five per cent of the population, most of them children, have died within a week. The government has been taking the corpses from the parents and burying them secretly to avoid mass national panic.

The United States has given \$53 million worth of food and medicine in ransom for the invasion captives. This may serve to halt the epidemic.

Grades Ready January 31

First Term Grade Reports will be mailed to the Term address on Thursday evening, January 31, according to the Registrar's Office.

The Report may be sent to the student at a different address if he calls at the Registrar's Office no later than January 25. Duplicate reports will be sent to the parents of First Year Students.

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The challenge of the future is indicated by current programs. Presently Pratt & Whitney Aircraft is exploring the areas of technical knowledge in magnetohydrodynamics . . . thermionic and thermoelectric conversions . . . hypersonic propulsion . . . fuel cells and nuclear power,

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For further information regarding an engineering career at Pratt & Whitney Aircraft, consult your college placement officer or write to Mr. William L. Stoner. Engineering Department, Pratt & Whitney Aircraft, East Hartford 8, Connecticut.

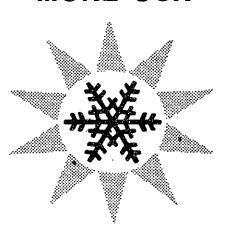
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movies...

'Lawrence Of Arabia' At Gary Theatre

Any serious attempt at a screen one hand (he seemed shameful, meet with almost unsurmountable alized he could enjoy killing), crudifficulties: Lawrence, a man who elty and extensive bloodshed on became a legend in his own time, the other hand. The reasons for was an incredibly complex and his actions were never clear to many-sided character, and very me; whatever insights into his little is known of his real personality. As a result, "Lawrence of Arabia," visually rich, intellectually honest and careful as it is, meets with only a partial success.

The film does not stand up to detailed psychological examination. I failed to comprehend the psychology behind Lawrence's contradictory behavior: mercy, respect for the human life on the

ENTER THE

L'ME

GRAND PREX 60

biography of T. E. Lawrence must profoundly depressed when he repersonality were present, they seemed as contradictory as his behavior. Robert Bolt's screenplay succeeds only in capturing the external side of Lawrence's character (his exhibitionism, his insecurity) and his relation to his environment and fails in the attempt to probe deeper. Bolt's treatment of Lawrence is in this way somewhat similar to that of Thomas More in his current Broadway success "A Man for All Seasons." Had the film been restricted to the legend of Lawrence, had it not had any psychological pretensions, any desire to portray the man, perhaps it would have been the achievement its talented staff had led us to anticipate.

Directed with painstaking dedication by David Lean ("The Bridge on the River Kwai,' 'Brief Encounter''), "Lawrence of Arabia" is the product of years of work. Shot on location in the Arab desert, a beautiful color photography and a sense of pictorial composition give it a splendid visual quality. Particularly notable is the use of the desert as a

‱M. A. Greenhill presents‱ Sat., Jan. 26, 8:30 p.m.

6-24128

JORDAN HALL

LAWRENCE OF ARABIA; produced AWRENCE OF ARABIA; produced by Sam Spiegel; directed by David Lean; soreenplay by Robert Bolt; photography by F. A. Young; music by Maurice Jarre; at the Gary theater, Boston. With the following cast; Peter O'Toole as T. E. Lawrence, Alec Guinness, Jack Hawkins, Anthony Quinn, Arthur Kennedy, Jose Ferrer, Claude Rains, Anthony Quayle.

cinematic object (Lean's favorite shot is a slow backing away of the camera, leaving the characters as insignificant points in the huge landscape). Scenes are often successful pictorially (the opening sequence of Lawrence riding to his death), dramatically (the officers' club in Cairo, depicting the contrast between Lawrence and his army environment), or both (Lawrence covered with blood while fighting the Turks). The cast is large and competent: Peter O'Toole as Lawrence, Alec Guinness and Anthony Quinn deserve special mention.

If one is content with admiring the polished surface of the film. one will think highly of it. Indeed, "Lawrence of Arabia" remains a good film-beautiful, powerful, always intriguing; certainly one of the best Hollywood offerings of the year; perhaps worthy of all the Academy Awards it will probably receive.

Theatre Schedule

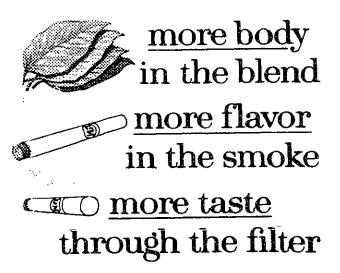
CHARLES PLAYHOUSE-"Little Mary Sunshine', Tues.-Fri., 8:30, 3:00, 7:30, Sat., 5:30, 9:00.

IMAGE-54 Charles St., "The Lady's not for Burning", Tues.-Sat., 8:30.

WILBUR—"Shot in the Dark", 8:30, mats. Thurs. 2:15, Sat., 2:30 until Jan. 12; starting Jan. 14, "The Hollow Crown", 8:30, mats. Wed. 2:15,

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5:15, 7:3 MUSIO 1:55, 4:3 12:05, 2 2:50, 5:50 PARAMOU Polo'' Sun., Year

SAXON— eves, 8:1 2:15. HOUSE— ey'', eve Jan. 13-1 UPTOWN-

schedule

th Tues., Jan. 15 stated, the Sunday as the weekday movies are shown

ongest Day," 8:15; 2:00; Sun., 7:30 2:00; Sun., 7:30
gamness Series: "The
Wed. through Sat.,
Sun.-Mon.-Tues.,
next Wed. through
5:30, 7:30, 9:30,
d Sun. at 3:30.
dA — "The WonderBrothers Grimm,"
Wed., 2:15, Sat.
5:00.

prio 70," "Tempta-pnio," 10:00, 12:45, Sun., 1:00, 3:45, Job", 10:55, 1:40, Sun., 1:55, 4:40, he Raffle," 11:50, 10:50, Sun., 2:50

play, "The Import-10:00, "The Laven-5:30, 8:45; starting Grains of Flying," Sat., Sun., 2:00, ad Coronets," 7:00, st., Sun., 3:45. of Arabia" eves., ., Sat., Sun., 2:00.

Build," 2:00, 4:15,

IE—"Period of Ad-5:45, 9:35; "Bache" 3:40 and 7:35. "Trial and Error," "The Singer Not 4:40, 8:05. —"Search for the 11:33, 1:36, 3:39, Sun., 1:24, 3:27,

M—''Taras Bulba'', 0, 4:50, 7:05, 9:25, 1, 6:25, 8:55, haedra'', 10:09, 12:-1:00, 9:15, 1:24 Vanishes'', 1:30, 9:00; Saturday, 1:44 (ay)', Room 10-250,

- "Boccaccio 70",
Dr. Antonio", 10:, 6:24, 9:08, Sun.,
, 5:59; "The Job",
, 7:19, 10:03, Sun.,
9:54; "The Raffie",
, 3:14, 10:58, Sun.,
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psy", 9:35, 12:30,
Sun., 1:00, 3:30, CINEMA—"Divorce 30, 5:30, 7:30, 9:30. Jan. 14, "Marco 2:40, 6:15, 9:30, 4, 9:30; "Panic in 6, 1:00, 4:35, 7:50. 7:50.

7:50. on the Bounty," Wed., Sat., Sun., MUNITY PLAY-2, "It's Only Mon-mats., Sat., 2:00; rectcar Named De-, 11:00, 2:40, 6:10, ch of Mink", 12:-

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theatre...

'Little Mary' Corny, But Delightful

By David G. Johnson

The Charles Playhouse is now featuring a novel operetta, "Little Mary Sunshine." This musical is melodramatic, corny, hammy and thoroughly delightful. "Little Mary Sunshine" is a satirical excuse for cast and audience alike to have a rollicking good time.

Good is good and bad is bad. Boys and girls naturally fall in love. And Gilbert and Sullivan spin in their graves. The Forest Rangers chase a bad Indian, who is the son of the good Indian, who raised Little Mary Sunshine, who runs the Colorado Inn, to which come young girls from Eastchester Finishing School. The girls fall in love with the Rangers, etc.,

The cast contains no pastel characters. Each characterization is strong, and the casting is excellent. With only one exception, the cast is vivacious, uninhibited, and attractive. Everyone sings well, and the voices are well blended and balanced. Some of the dancing is excellent, but all the dancing is at least adequate.

Some of the choreographic special effects-and their executionare truly remarkable. One especially worthy example is part of a scene in which a Ranger and his girl friend are being pursued by the bad Indian. The couple stroke. The Indian "dives" into vues. the river and swims to the other

IN PERSON

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LITTLE MARY SUNISHINE; produced by Jerome Rosenfeld and Frank Sugrue; directed and choreographed by Neal Kenyon; music chrected by Joseph Raposo; lighting by Roger Johnson, Jr.; scenery by Alan Kimmel; costumes by Rivka Berg; production supervisor Aloysius Petrucceili; book, music and lyrics by Rick Besoyan at the Charles Playhouse.

THE CAST

Chief Brown Bear ... Bill Wildin
Cpl. "Billy" Jester .. Joel Warfield
Capt. "Big Jim" Warington ...
William Graham
"Little Mary Sunshine" (Mary
Potts) Karen Sargent
Mme. Ernestine Von Liebedich ...
Nanow Zala Nancy Twinkle ... Amelia Haas
Fleet Foot ... Robert Chambers
Yellow Feather ... Garry Phillips
Gen. Oscar Fadifax, Ret.

Robert Chambers
Young Ladies from Eastchester

Finishing School: Cora June Lion
Henrietta Sherry Lambert
Gwendolyn Roberta Sorbello
Mabel Carol Poppenger
Maud Donna Klimoski
Gentlemen of the United States Forest Rangers: Pete Ian Brown
Tex Peter Clark
Slim Garry Philips
Buster Pare M. Lorentz
Hank Tony Wells

side, in a similar fashion. The applause is long and loud. The production is well adapted in Boston.

has to watch the action from the rear. However, everyone is subjected to the sight of backstage dcors and fire exits immediately offstage. One exit is even spotlighted, since the piano and drum are located in a little nook by the exit. This is a more or less necessary evil, for the excellent music adds greatly to the production, and the stage arrangement does not allow for, nor require, an orchestra pit. A second spotlight would be helpful, but this handicap is usually overcome by skillful use of existing equipment.

to the three-quarter round stage

of the Charles Playhouse. No one

Twenty-three song and dance numbers contain a variety to please any taste. The music, dancing, color, comedy, and infectious good cheer make a visit to "Little Mary Sunshine" an evening well spent. However, one should be sure to take advantage of the short intermission, as the seating is not the most spacious

Musical Revue

THIS SATURDAY

'Big Broadcast' Initiates Cabaret

come to a "river" on the side Charles Playhouse opened with the Charles Playhouse on 74 Warof the stage, gingerly lower them- "The Big Broadcast of 1963," a selves into an imaginary canoe musical topical revue directed by and paddle across the river, scoot- Ben Bagley, creator of the "Shoeing themselves forward with each string" and other New York re- features satirical sketches and

also at Minuteman Radio, Harvard Sq.

Enclose self-addressed stamped envelope

The new Cabaret Theatre at the newly renovated street level at renton Street.

"The Big Broadcast of 1963" scenes contributed by Sheldon The Cabaret Theatre is in the Harnick, Peter Myers, Ronnie Cass and Peter Cook, whose contribution to "Beyond the Fringe" recently delighted Boston audien-

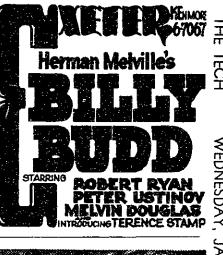
> Performances will be given at 9:00 p.m. on Tuesday, Wednesday and Thursday evenings, Friday and Saturday at 9:00 and 11:00 p.m. and on Sunday at 7:00 and 9:00 p.m.

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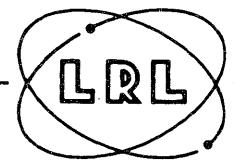
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THE BELL TELEPHONE COMPANIES

SALUTE: GEORGE HUDSON, JR.

By Charles Foster Ford

"Billy Budd" may get lost in the flood of sea-epics that have washed over Boston this season, or worse, it may be mistaken for black-and-white imitation of "Mutiny on The Bounty," made to ride on the publicity tidalwave. Either would be a mistake. "Billy Budd" is not an escapist adventure, but a serious discussion of morality . . . and a great job of movie-making in the bargain.

movies...

From the moment Billy Budd . . the soul of innocent good- steeped in cruelty and evil that ness . . . leaves the merchant- goodness appears to him strange man "The Rights of Man" to be- and unnatural. Claggart is hated come part of the crew of "The by the seamen he commands, for Avenger" his destruction is all his cruelties, and despised by his but inevitable. Again and again it officers as a liar. Billy's honesty is stated that this is a man-of- puzzles him, but it is too much black-and-white Cinemascope) by war, in hostile seas, at war with a threat to his own power to be France. Admiralty law provides ignored. Claggart accuses Billy the only rules for living. And, as of fomenting mutiny and murder a third vital fact in the back- . . . a foolhardy mutiny which, provided dramatic and exciting ground, the crews of two other in fact, Billy has been trying to ships have already mutinied prevent. Speechless with rage and against outdated, inhuman cruel- injustice, Billy can find no anties. The stage is set for a swer but a blow, and Claggart come obvious at second or third tragedy.

The antagonist here is the mast-

'Billy Budd:' A Discussion Of Morality

CAST
Claggart Robert Ryan
Captain Vare Peter Ustinov
Dansker Melvyn Douglas
Billy Budd Terence Stamp
Jenkins Ronald Lewis
Lieutenant Wyatt David McCullum
Lieutenant Ratcliffe. John Neville
Lieutenant Seymour Paul Rogers
Squeak Lee Montague
Payne Thomas Heathcote

dies of it.

Admiralty law sees this act one er-at-arms Claggart, a man so of mutinous murder. It thus com-

pels the ship's officers to hang a

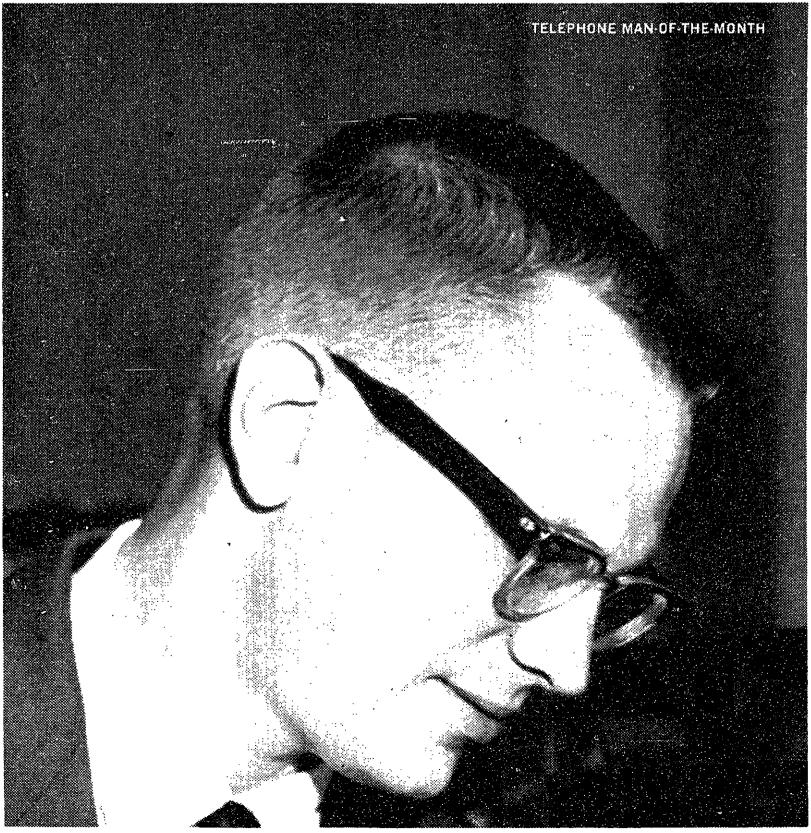
This movie has benefited from the workmanship of several artists. Melville's original was made into a dramatic stageplay by Lewis O. Coxe and Harvard's Robert Chapman, from which Peter Ustinov and DeWitt Bodeen fashioned the screenplay. Each stage of development seems to have refined the original, and to have translated its essential power into new

sic contribute to the final effect, and never become noticeable in themselves.

Even Peter Ustinov, though producer-director, is more than just an actor in a very big role. Captain Vere is a man who must try very, very hard not to be

Mr. Ustinov has used this film to say some very important things: that war makes those who wage it quite inhuman; and that there is often a horrifying difference between law and justice. These things are very well told, and "Billy Budd" in an unforgettable movie.

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Superintendent. Outstanding performance on both jobs

earned George his present responsibilities.

man they all believe innocent of any evil. The act itself condemns him, and his reasons for it are unimportant. Despite the compassion of the officers, despite the anger of the crew, Billy must hang.

mediums. The film was photographed (in Robert Kraskov; Captain Alan Villiers provided three romantic old sailing-ships; Anton Hopkins music. All three have worked together to fill the film with beautiful technical details which beviewing; the focus is kept continually on the dramafic matter; the excellent photography and mu-

Neither is the acting visible by itself; characters are what they must be. Robert Ryan's Claggart is a tense, neurotic, sardonic disciplinarian always waiting to pounce. Terrence Stamp is guileless and simple, and he has managed . . . by much will-power and many re-takes . . . to avoid being an insufferable caricature of goodness.

Classrooms Abroad **Assembling Groups** For European Study

Classrooms Abroad is forming language study groups to visit Europe this summer.

Participating students will live in native homes and spend over fifteen hours per week in classroom study of German, Italian, French, or Spanish. Study groups are small; and the program, now in its eighth year, emphasizes intimate contact with the language and culture of the country visited.

The program lasts seven weeks. You may contact Joseph Harrington, at Graduate House 212, a past participant in the program, for more information.

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Pernel And Tucker To Perform Monday

er, pianist, of the M.I.T. faculty, Library.

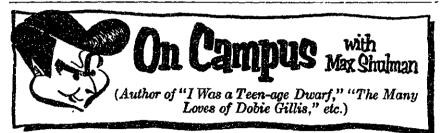
The Department of Humanities in a recital of sonatas for piano will present Orrea Pernel, violin- and violin by Beethoven and ist on the Bennington College Brahms, on Monday, January 14, music faculty, and Gregory Tuck- at 5 p.m., in the Hayden Music

Program Of Lieder Tonight At Lieder

tonight, at 8:30 p.m. The concert, mann, Wolf, and Strauss. which will be held in Jordan Hall. is open to the public. Featured on simultaneously over WGBH-FM.

The New England Conservatory the program will be songs by Beewill present a program of Lieder thoven, Brahms, Schubert, Schu-

This concert will be broadcast



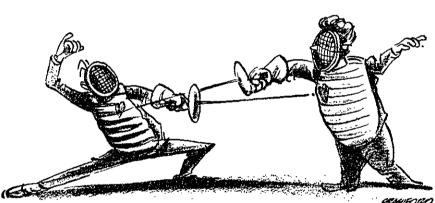
A GUIDE FOR THE UNMONEYED

R. L. Sigafoos was a keen, ambitious lad, and when he finished high school he wished mightily to go on with his education. It seemed, however, a forlorn hope. R. L.'s father could not send the boy to college because a series of crop failures had brought him to the brink of disaster. (R. L.'s father raised orchids which, in North Dakota, is a form of agriculture fraught with risk.)

It was, therefore, squarely up to R. L. He could go to college only if he worked his way through. This was a prospect that dismayed him. He had a deep-seated fear that the task would be too great, that he would never be able to carry on a full, busy college life and still find time to do odd jobs and make money.

Racked with misgivings, R. L. paced the streets, pondering his dilemma. One day, walking and brooding, he came upon a park bench and sat down and lit a Marlboro cigarette. R. L. always lit a Marlboro when he was low in his mind. R. L. also always lit a Marlboro when he was merry. The fact is there is no occasion-happy or sad, pensive or exuberant, cheery or solemn—when Marlboro with its fine filter and fine flavor is not entirely welcome, as you will discover when you go to your favorite tobacconist and buy some, as we—the makers of Marlboro and I and R. L. Sigafoos—hope you will do real soon.

Sitting and thinking and smoking a Marlboro on the park bench, R. L. was suddenly interrupted by a small, quavering voice which said, "My boy, you are troubled. Can I help?"



I Gave a feming lesson to the Dean of Women

Seated beside R. L. was a tiny, gnarled man with wispy, snow-white hair. His skin was almost transparent, showing a delicate tracery of fragile bones beneath. His back was bent, and his hands trembled. But his eyes were bright and clear. R. L. looked into those eyes, into the wrinkled face. He saw wisdom there, and experience, and kindness. "Do you think. sir," said R. L., "that a boy can work his way through college and still enjoy a rich, full campus life?"

"Why, bless you, son," replied the stranger with a rheumy chuckle, "of course you can. In fact, I did it myself."

"Was it very hard?" asked R. L. "Yes, it was hard," the stranger admitted. "But when one is young, all things are possible. I, for example, used to get up at five o'clock every morning to stoke the furnace at the SAE house. At six I had to milk the ewes at the school of animal husbandry. At seven I gave a fencing lesson to the Dean of Women. At eight I had a class in early Runic poets. At nine I gave haircuts at the Gamma Phi Beta house. At ten I had differential calculus. At eleven I posed for a life class. At twelve I watered soup at the Union. At one I had a class in Oriental languages. At two I exercised the mice in psych lab. At three I gave the Dean of Women another fencing lesson. At four I had qualitative analysis. At five I went clamming. At six I cut meat for the football team. At seven I ushed at the movies. At eight I had my ears pierced so that at nine I could tell fortunes in a gypsy tearoom. At ten I had a class in astronomy. At eleven I tucked in the football team. At twelve I studied and at three I went to sleep."

"Sir," cried R. L., "I am moved and inspired by your shining example!"

'It was nothing," said the stranger modestly, shaking his frail white head. "It was just hard work, and hard work never hurt anybody."

"Would you mind telling me, sir," said R. L., "how old you

are now?"

"Twenty-two," said the stranger.

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Making the Scene

MAKING THE SCENE THIS WEEK

MUSIC

Program of Lieder-Jan. 9, 8:30, Jordan Hall; songs by Beethoven, Brahms, Schubert, Schumann, Wolf,

Jose Greco-Jan. 11, 8:30, Symphony

Vaughn Meader — with the cast of "The First Family", Jan. 12, 8:30, Donnelly Theater; tickets \$4.75, \$4.00, \$3.50, \$2.75, \$2.00.

NDR Symphony Orchestra of Hamburg—Jan. 13, Symphony Hall, 3:00; Philippe Entremont planist.

Amati String Quartet—Jan. 13, 3:00,
Gardner Museum; Schoenberg's
quartet for strings and soprano
with Helen Thigpen, and works by
Mozart and Debussy.

Claremont Quartet — Jan. 13, 3:00, Kresge Audit.

MISCELLANEOUS

V. H. Auden—poet's reading, Jan. 9, 7:45, Alumnae Hall, Wellesley Col-lege

Jean Gottmann — "The Challenge of Magalopolis" Pendleton Hall, 7:45, Jan. 10, Wellesley College.

MIT Classics Series—"The Lady Vanishes", Room 10-250, 6:30, 9:00; Michael Redgrave stars in this fast-moving Hitchcock spy drama filmed with the Continental Express as the setting. (USA).

MIT Entertainment Series—"Never on Sunday", Jan. 12, Room 10-250, 5:15, 7:30, 9:45. Melina Mercouri,

Jules Dassin, Georges Foundas, Ti-tos Vandis. An American philoso-pher visiting Greece attempts to re-form a prostitute by asking her to abandon the profession for a fort-night, convinced this will change her way of life. It doesn't.

NEXT WEEK MUSIC

Pasquale P sequale Principe—clarinet, Jordan Hall, S:30, Jan. 16; Beethoven "Trio for Clarinet, Cello and Piano", Mo-zart, "Quintet in A major", works by Jommelli, Galuppi, Villa-Lobos, Fernandez.

Marion Valasek—flute, Jan. 17, 8:30, Joudan Hall; Mozart "Concerto in arion Valasek hute, Joydan Hall; Mozart 'Concerto m C major for Flute, Harp and Or-Vanson 'Serenade for chestra". Hanson "Serenade Flute, Harp, and String Orchestra works by Prokofieff and Poussel.

BSO open rehearsals—Jan. 17, Symphony Hall, 7:30, doors open at 6:45.

Artur Rubenstein—Jan. 20, Symphony Hall, 3:00; tickets, \$5.50, \$5.00, \$4.50, \$4.00, \$3.00.

David Craighead—organ concert, Symphony Hall, Jan. 20, 6:00; tickets phony \$1.50.

Linda Newman — sopra 3:00, Gardner Museum soprano, Jan. 20,

MISCELLANEOUS

MIT Little Theatre—William Saroyan's "The Time of Your Life", Jan. 17-19, 24-26, 8:30; tickets \$1.50.

Anna Russell—Jan. 18, 8:30, Kresge Auditorium; tickets, \$2.50, \$3.00. New England Sports Show—Jan. 19-26, Commonwealth Armory.

– Nightly —

Jan. 11 - Jan. 19

TONIGHT

Jim Kweskin

Jan. 20 - Feb. 3

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Community Players To Offer Saroyan's 'Time of Your Life'

The MIT Community Players will present William Saroyan's "The Time of Your Life," January 17, 18, 19, and 24, 25, 26, in Kresge Little Theatre at 8:30 p.m.

This play represents life in America during the thirties. It is the second of three plays to be presented by the Players this year concerning the theme: the individual's identity within his society.

Mr. Maurice Breslow, technical director of the Wellesley College Theatre and the Weston (Vermont) Summer Playhouse, will direct.

Tickets are \$1.50 and may be purchased weekdays from 11:30, 1:30 in the lobby of Building 10, or reserved by calling extension

The traditional opening night reception, to which the audience is invited, will be Thursday, Janu-

Odada Abstracts Now At Library

An exhibition of twenty paintings by Kenzo Odada, one of Japan's leading modern painters, opened Monday at Hayden Library and will be on view through January 27.

Okada has been selected by both Japan and the United States to represent them, individually, in exhibitions and competitions. Prizes he has won include the 1958 Venice Biennial representing Japan) and the 1957 So. Carolina Biennial. His work is represented in major U.S. museum collections.

Okada's paintings are wholly abstract and give much attention to the relationship of masses and color areas and textures.

Gottmann Discusses Megalopolis Crisis

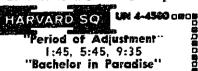
Jean Gottmann, an authority on urbanization, will speak at Wellesley College Thursday evening on the development of large cities along the North Atlantic coast of America.

Currently on leave from his post as professor of geography at the University of Paris, he will lecture at 7:45 in Pendleton Hall. His speech is entitled "The Challenge of Megalopolis.'

Peace Corps Tests To Be Given Jan. 26

Peace Corps Placement tests will be given at 8:30 a.m. on Saturday, January 26, at Memorial Hall, Harvard University, at Kirkland and Cambridge Streets.

To qualify for the test, fill out a Peace Corps Questionaire available at any Post Office and from the Peace Corps, Washington 25, D.C. Bring it to the test center or send it to the Peace Corps.



Starting Sunday "Trial and Error" 2:55, 6:20, 9:40 'The Singer Not the Song' 1:15, 4:40, 8:05

3:40, 7:35

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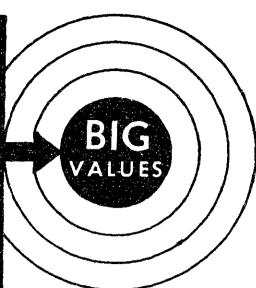
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3.95	3.19	2/5.85	
5.00	3.99	2/7.45	
5.95	4.79	2/8.85	
6.95	5.59	2/10.35	
7.50	5.99 ⁻	2/11.25	
7.9 5	6.39	2/11.95	
8.50	6.79	2/12.75	
8.95	7.19	2/13.35	
10.00	7.99	2/14.95	
12.50	9.9 9	2/18.75	
15.00	11.99	2/22.45	
19.50	15.59	2/28.45	
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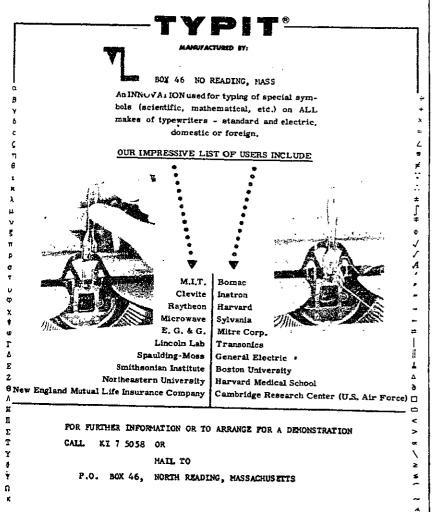
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THE ANSWER:



Douglas C. Davis, U. of Arizona apartments? THE OUESTION: What opens Florida

THE ANSWER:

A. T. Co.

Ken L. Sandy, Michigan State U. you box with a midget? THE QUESTION: What do you get when THE ANSWER:

the Ship

Janet C. Easterbrooks, Syracuse U. if you can't swim? THE QUESTION: What should you do

THE ANSWER:

Stagnation

Jeanette Schemel, Sacramento State College country without women? THE QUESTION: What do you call a THE ANSWER:

Gerald R. McCreary, North Texas State U. baby duck's first feathers? THE OUESTION: What do you call a

THE ANSWER:

Dana R. Trout, U. of California a thingle girl? THE QUESTION: How do you addreth

THE ANSWER IS:

the taste to start with . . . the taste to stay with

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Tech Swimmers Win 🗐 Over Adelphi, 56-38 🛱 Season Mark At 4-1

MIT's varsity swimmers pushed
for 4d with a 56-38 their record to 44 with a 56-38 victory over Adelphi.

Swimming at Alumni Pool, the Engineer's opened the meet with a victory in the 400 yard medley relay in 4:12.5. Members of that relay team were Frank Mechura '65, Charles Einolf '63, Ron Matlin '63, and Joe Schrade '63.

St. Peters Places 2nd

In the 200 yard freestyle Dick St. Peters '65 placed a close second against Adelphi's best dis- 🗢 tance man. Bob Geroch '64 finished third in the race. In the 50 yard freestyle Sandy Blanchard '65 placed second with Henry Goldfein '65 finishing a close third Again in the 200 yard individual medley the Techmen swam a close race with Bill Brody '65 closing second and Eric Jensen '64 placing third.

In the one meter diving, Steve Snover '65 came through with a first place with 49.28 points. Bill Huntington '65 followed up with a

second place.

In the 200 yard butterfly, Matlin placed third. Likewise, in the 100 yard freestyle Schrade finished in third place. The Engineers pulled out with another first and second in the 200 vard backtsroke. Mechura placed first in 2:24.3 with Tim Sloat '63 second.

In the 500 yard freestyle, St. Peters swam an even closer race than the 200 to place second. Again Geroch followed St. Peters by placing third.

Einolf, Peacock Clinch Victory With the score at 41-37 the Techmen needed a first and second in the 200-yard breaststroke to win the meet. Einolf finished well , ahead to place first in 2:38.6. Cash Peacock '65, swimming hard, also pulled well ahead of Adelphi to place second and provide Tech with the victory. In the 400 yard freestyle, the relay of Blanchard, Bob Bachrach '64, St. Peters, and Schrade increased the victory margin with a first over the Adelphi team.

On Deck

Today, January 9 Fencing (V) Holy Cross, Home, 7:00 PM Hockey (V) - Amherst, Away, 3:30 PM Hockey (F) — Amherst, Away, 7:00 PM Squash (F) — Andover, Home, 3:00 PM

Swimming (V) - Wesleyan, Home, 5:00 PM Swimming (F) — Wesleyan, Home, 3:30 PM

Wrestling (V) - Brown, Home, 7:30 PM Wrestling (F) - Brown, Home, 6:00 PM

Thursday, January 10 Basketball (V) - New Hampshire, Home, 8:15 PM Basketball (F) - New Hampshire, Home, 6:30 PM

Friday, January 11 Hockey (V) - Connecticut. Home, 7:00 PM

Saturday, January 12 Basketball (V) — Bowdoin, Away, 8:15 PM Basketball (F) — New Prep, Home, 6:30 PM

Fencing (V) - Trinity, Home, 2:00 PM Fencing (F) - The Lennox

School, Home, 2:00 PM Hockey (V) - Wesleyan, Home, 7:00 PM

Hockey (F) - Governor Dummer Academy, Away, 2:00 PM Pistol - Navy, Home, 2:00 PM Squash (V) - Adelphi, Home, 2:00 PM

Squash (F) - St. Paul's, Home, 3:30 PM

Swimming (F) — Army, Away Indoor Track (V) - Knights of Columbus Meet, Boston Garden Wrestling (V) - Amherst, Away, 2:00 PM

Tuesday, January 15 Basketball (V) - Harvard (J.V.), Away, 7:30 PM

Engineers Capture Hoop Title in Montreal Tournament

Victorious in the Montreal In- ary 1st and 2nd, MIT engaged in 3 wins on their recent Canadian tour, MIT's Cagers return to the home court tomorrow night against University of New Hampshire, in the hopes of following the trail of the '62-'63 squad. That record shattering Tech Five posted a 2-4 mark before January 1st and went on to win all fifteen games in 1962. The present team went 1-5 in 1962 and has a 3-1 record since January 1st, the single loss coming in a double overtime contest.

In the Montreal tourney, last Friday and Saturday, MIT trounced Sir George Williams University 88-39 while Pennsylvania Military College defeated Queens College of Ontario, 70-62 in opening

MIT Takes Trophy

In the consolation contest SGWU upset Queens 64-51. In the final, Tech was extended, but won its with a 69-64 decision over PMC. half. For this tournament victory, MIT takes possession of the Sir George Williams Trophy.

Tuesday and Wednesday, Janu-

Intramural Volleyball Begins February 10; **Qualified Refs Needed**

MIT's Intramural volleyball season will begin on February 10. All rosters are due in the Athletic Association, along with the regular 10 deposit, by January 18.

This year's league will be organized much the same as last year's, but more participation is expected. The Metallurgy Grad students, last year's champions, should again prove the team to beat. Other groups expected to field strong teams are Sigma Alpha Epsilon, Alpha Tau Omega, and Grad Management.

Qualified referees are needed badly. Anyone with experience should contact Fred Souk at SAE, extension 3782. Adequate compen-

vitational Tourney and spurred by the third annual Bluenose Classic basketball tournament in Halifax, Nova Scotia. In the opening round games, the University of Vermont clobbered St. Francis Xavier 110and MIT stopped defending champion Acadia of Wolfville, N.

Vermont Stops Techmen

In the consolation round Acadia trounced St. F.X. 72-51. In the championship final, taped for network TV, and attended by over 1500 people, Vermont defeated the Engineers in the second overtime

The Beavers led Acadia all the way. Bill Eagleson's 13 points and Bob Grady's 11 led Tech to a 35-19 lead at the half. Acadia, known locally as the "Axemen" lived up to their nickname in the second half. The Axemen continually fouled the Tech backcourt 4th of the year against 6 losses and racked up 16 personals in the

Losers Held To 3 Field Goals

Tech's shooters cooled down and hit just 3 field goals in the second half. Here, Acadia turned red hot. Steve Koncholski sank 7 baskets and 16 points in the second half as Acadia cut down the huge lead. With 30 to go, and Tech leading by only 56-54, Jeff Paarz converted two foul tosses. The Axemen hit their next shot, but Paarz clicked on another one-andone. A last-second shot made the score close at 60-58.

MIT played its best ball of the season against Vermont, a top Yankee Conference contender. With Eagleson and Grady showing the way and with Jack Moter turning in a fine performance, Tech opened up a 35-29 spread by half-lead with 3:15 to go, but Vermont 9, George McQuilken '65 had 7,

Grady Foul Shot Knots Game

the score for Vermont with 4:30 to go. The lead see-sawed as both teams played wonderful clutch basketball. Grady's foul shots produced a 61-61 tie with 30 seconds to go. Tech stole the ball and held for the last shot. A Vermont sation is provided, and the ser- scored first in the overtime, but vices of good referees will be ap- Eagleson's foul shots tied it up. gunned 13-5 in the overtime. Ver. minutes. A Grady jumper gave Tech the mont 78-MIT 70.

Fijis, Theta Delts, East Campus Score Wins In Intramural Hockey

Several important games were played in the week before Christed its close.

winning ways with a 41 victory goals by Foster. over Senior House. Norm Dorf and leads all scorers in IM hockey victory over Alpha Epsilon Pi, as and 50 at the unfortunate Canadwith 20 points. Later in the week, Senior House downed Sigma Phi Epsilon, 9-1.

Theta Delts Win Twice

mas vacation, as the regular in- second place in the B league, with tramural hockey season approach- a 3-0 shutout over Lambda Chi Alpha. The Theta Delts also de-

place in individual scoring.

Tech again held the ball for the

Benny Becton's pivot shot tied last shot, but Grady's 15-footer win. rimmed the hoop at the buzzer.

Vermont's Bill Shabel connected on a three-point-play early in the second overtime. Becton rebounded a short miss, and the Green Mountain Boys made good on their block ended this threat. Becton next play. Tech opened up in an

> Tech again held the ball for the last shot, but Grady's 15-footer rimmed the hoon at the buzzer.

Eagleson Named MVP

Grady had 23 and Eagleson 21 MacMillan for Tech. Becton had 20 and Shabel 19 for Vermont. For their fine Theta Delta Chi moved into performances, these men were elected to the tournament all-star team, along with Acadia's Koncholski. MIT's Bill Eagleson was selected Most Valuable Player in Phi Gamma Delta continued its feated Baker House, 6-0, on three this edition of the Bluenose Clas-

The MIT-Sir George Williams Chu of East Campus scored 6 game was only a brisk workout as '63 scored 2 goals and 2 assists, goals to lead his team to a 10-1 the Beavers threw halves of 38 East Campus retained first place ians. Moter had 17 in 25 minutes of in the E league. Chu has 16 goals, play, Eagleson had 13, and Kent Groninger scored 12. In shorter relief stints, Don Joseph '63 scored Moter Techniques 1 assist for 17 points and second Groninger scored 12. In shorter re-

tied the count at 65 with 1:45 left. and Tom Quaid '65 and Frank Yin Aluste TOTALS '65 had 6 each for the "go" team as the subs rolled up the 49 point

RETURNING WITH THE MONTREAL TOURNEY CROWN,

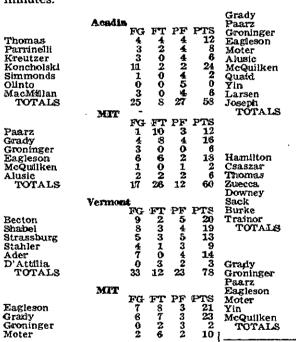
THE CAGERS MAY WELL BE

ON THEIR WAY TO FOLLOW

INGINTHE FOOTSTEPS

Led by Paarz' 13 points, Tech Faust Cummings an off to a 34-23 lead over Penn Habert ran off to a 34-23 lead over Penn Military.

Paarz had his biggest game of the year, collecting 23 points. Eagleson had 16, Moter 11, and Yin hit 7 in a relief role, including attempt to catch up, but were out- 5 for 5 from the line in the final



Paarz McQuilken Sir George Williams

lathan Igaz McCrimmon Watson Gavsie

GMA, Poli Sci, DTD Clinch IM Basketball Titles

intramural basketball The teams closed out their regular seasons the week before Christmas vacation, with the final standclinched league titles. Playoffs for the remaining undecided league championships, and the regular inter-league playoffs will be held this week.

LXA Edges Paradise Cafe Paradise Cafe and Grad House

the American League with identical 6-1 records. Paradise Cafe had the opportunity of clinching the championship in the league's final game, but was edged by Lambda Chi A, as Beach led the winners with 14 points. Grad House gained

Delts Down Du A.A. Title

The final game played in the championship in the league's final to be a championship contest between Delta Tau Delta and Delta

Wations! League

Stations! League

Graduate Management "A"
Phi Gamma Delta
Sigma Phi Epsilon "A"
Theta Chi "A"
Elpha Epsilon Pi
Burton House "A"
Pacific Coast League
Political Science

GMA Overcomes Baker

ionship game pitted Baker House in 4 of the 8 leagues. Grad Man-the Grads fought to a 56-38 victa Tau Delta, and Burton Fine 5th Olcott led the victors with 21

In the only game played in the Pacific Coast League, Political Science romped over Tau Epsilon Phi, by 73-17, to finish at the top of the league standings with a 7-0 record. Bannow tallied 20, and A finished their seasons tied for Kramer added 18 for the victors.

Delts Down Du A.A. Title

with 14 points. Grad House gained Upsilon, as both teams went into an important 70-36 win over Sig- the game with 4-0 records. The ma Chi to tie for the league lead. Delts took the title with a 37-25

victory as Downie spearheaded The National League's champ- their attack with 26 points.

The final standings in the East-A against Grad Management A. ern League showed a tie for the Baker had triumphed, 69-55, in a lead between Senior House B and ings showing ties for first place previous meeting, but this time Theta Delta Chi. Senior House downed Kappa Sigma, 36-17, as Ph agement A, Political Science, Del- tory for the league championship. Sigma Phi Epsilon B overcame the Theta Delts by 34-32, to produce the league tie.

Intramural Basketball Standings

Graduate House
Paradise Cafe
Lambda Chi "A"
Senior House "A"
Sigma Alpha Epsilon
Alpha Tau Omega "A"
Sigma Chi
Phi Delta Theta
National League
Management "A" Graduate House "A" Political Science Graduate Management "B" Phi Mu Delta Phi Mu Delta Delta Kappa Epsiion

Chinese Student Club Tau Epstion Phi Beta Theta Pi Nuclear Engineering American Association (final) Delta Tau Delta Delta Upsilon Burton House Lambda Chi "B" Phi Kappa Sigma Lambda Phi "A" Baker House "B" Sigma Alpha Mu Zeta Beta Tau Phi Kappa Theta Eastern League Senior House "B" Theta Delta Chi Sigma Phi Epsilon "B" Alpha Tau Omega "B" Southern League Burton Fine 5th Baker House "C" Chi Phi Alpha Tau Omega "B" Southern League Burton Fine 5th Baker House "C" Chi Phi Alpha Tau Omega "B" Pi Lambda Phi "B" Burton Dining Staff Theta Chi "B" Pi Lambda Phi "B" Burton Dining Staff Theta Chi "B" Southern League Chub 414 The Chokers Hayden 2nd Baker House "C" The Avantis Bemis 4th			r - Naide
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